

FIG. 1

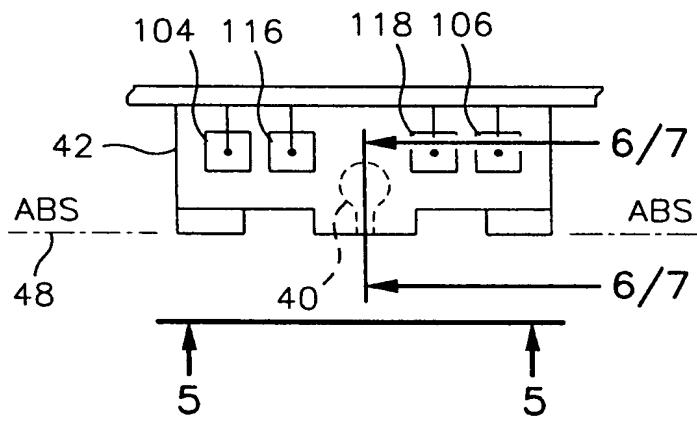


FIG. 2

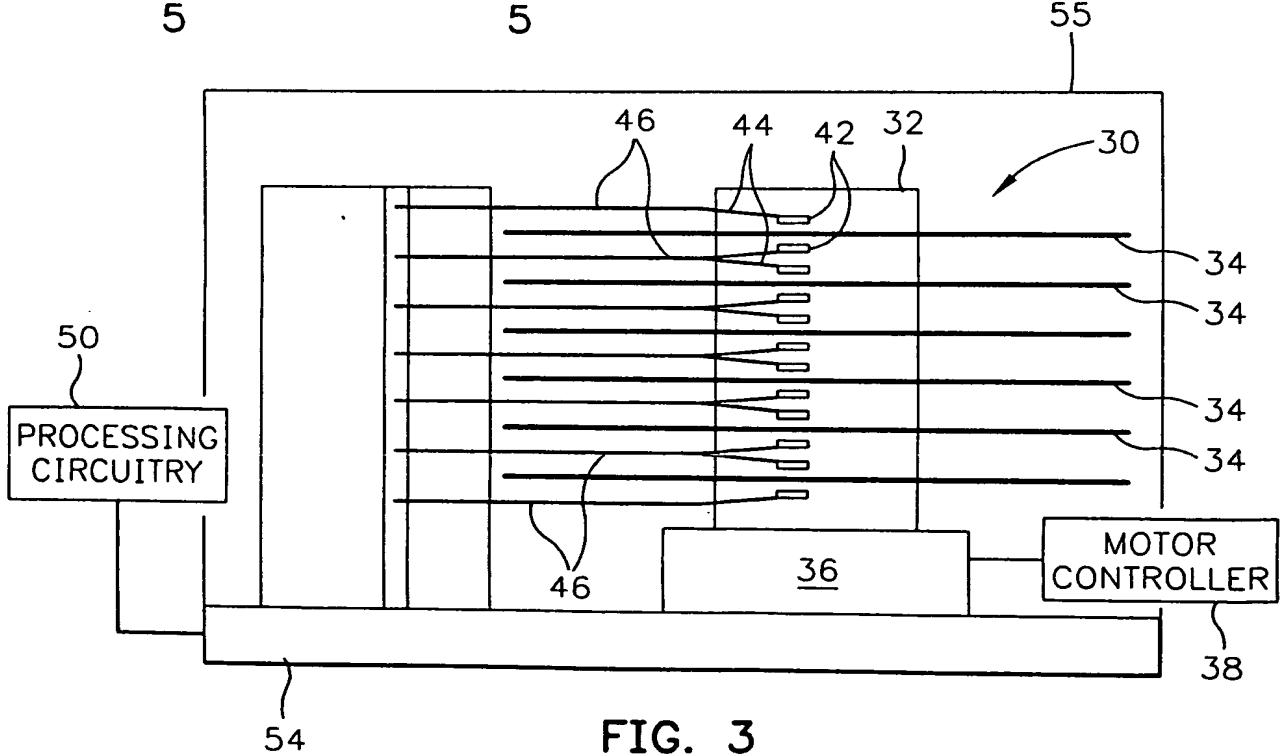


FIG. 3

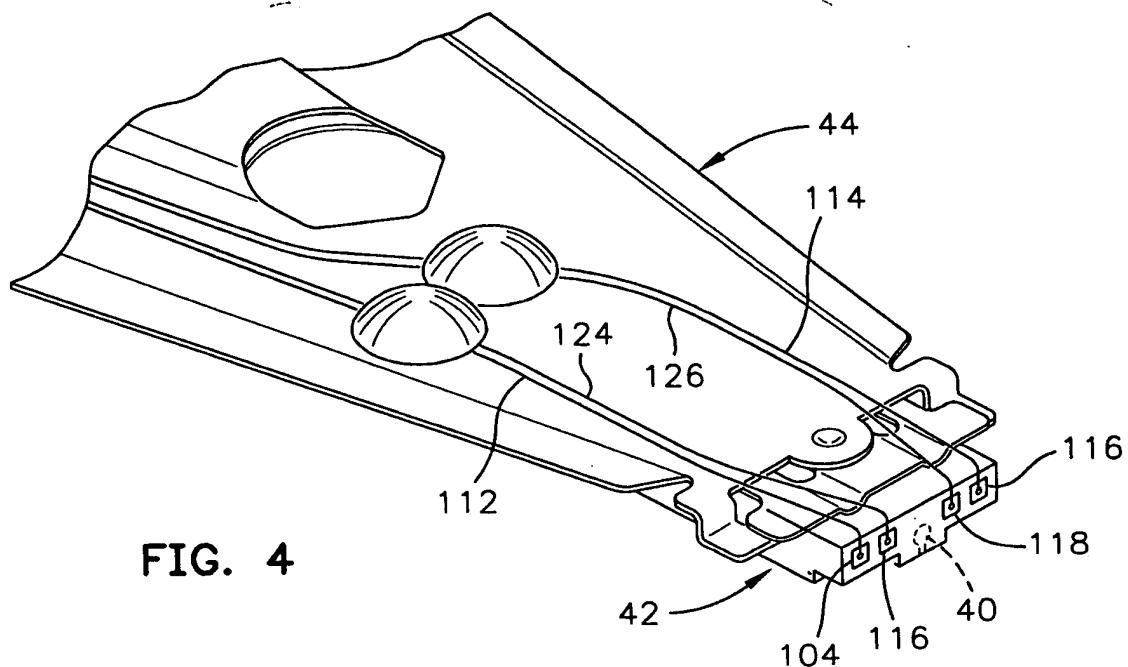


FIG. 4

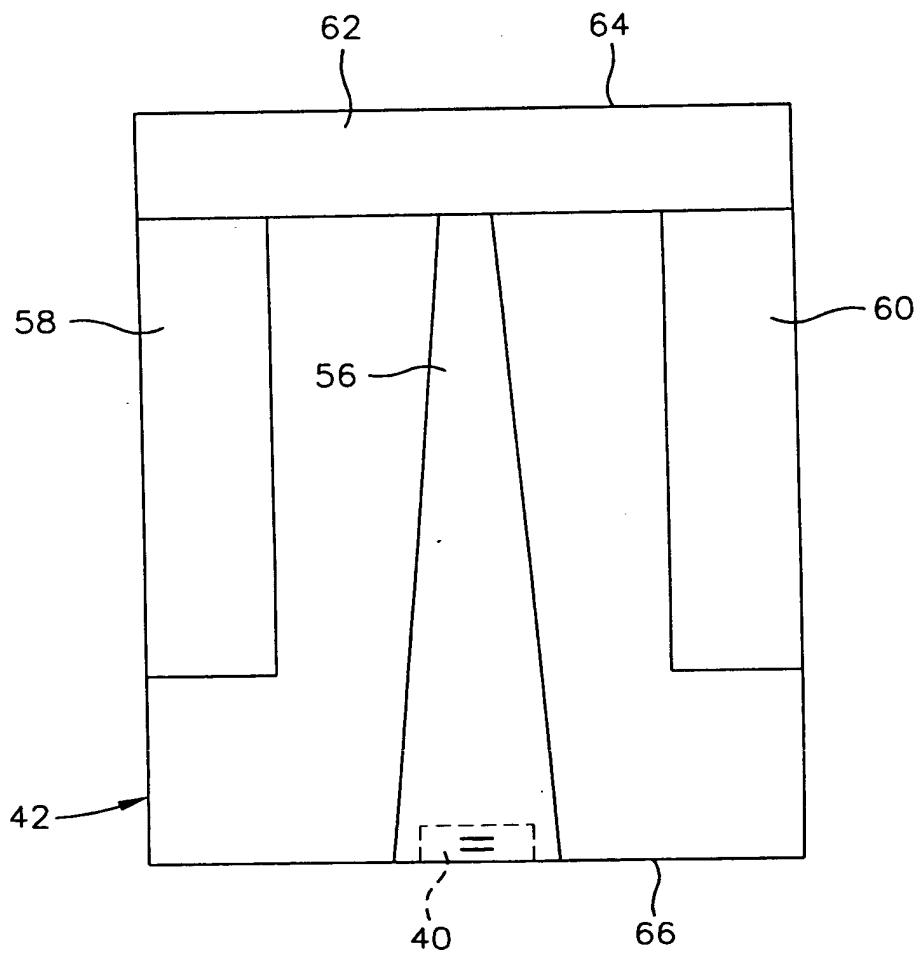
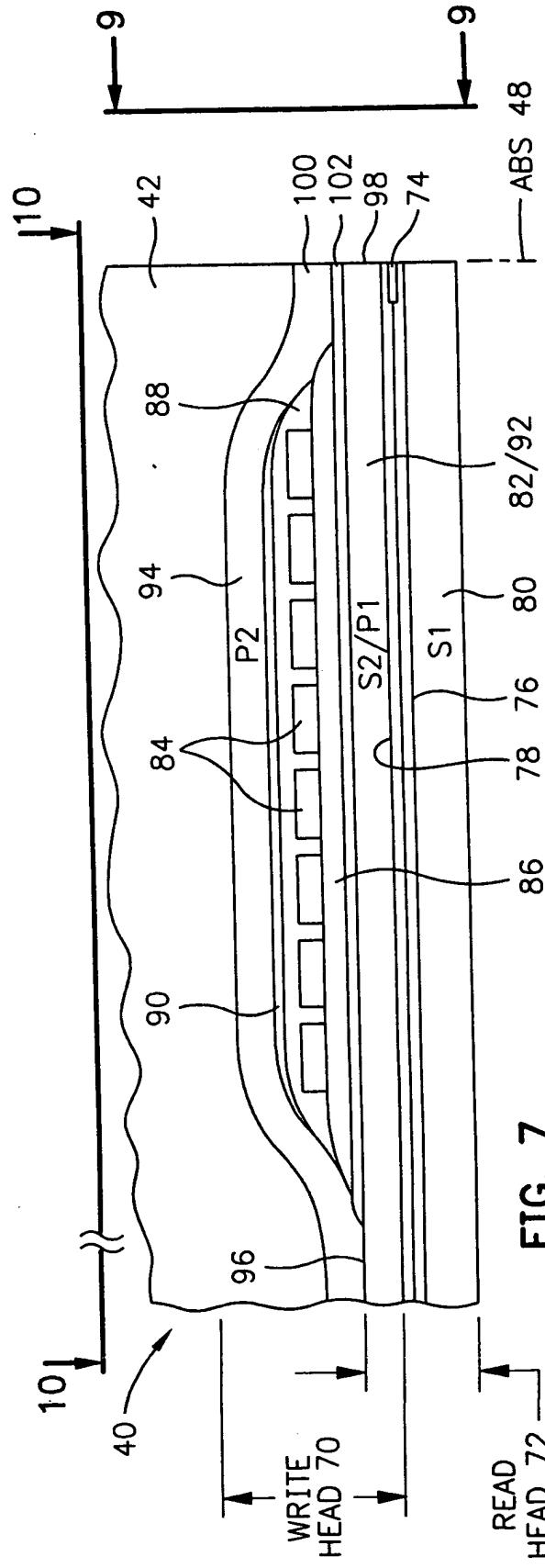
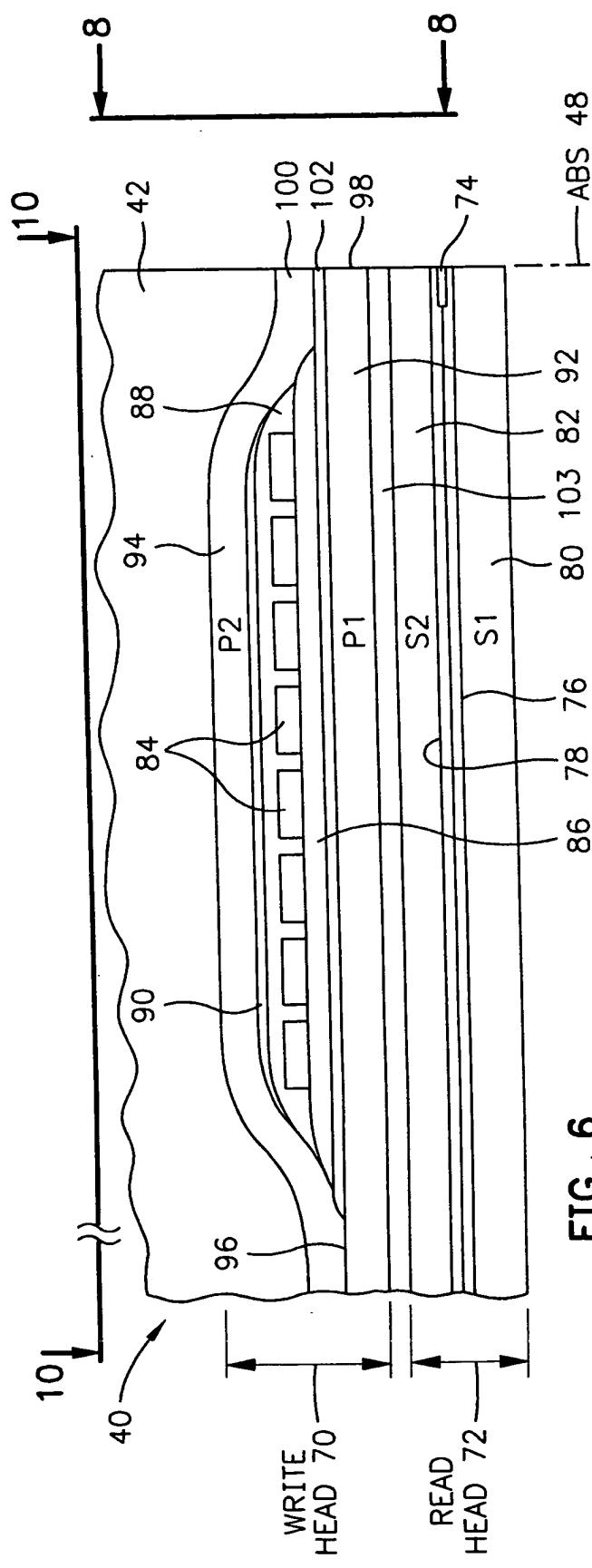
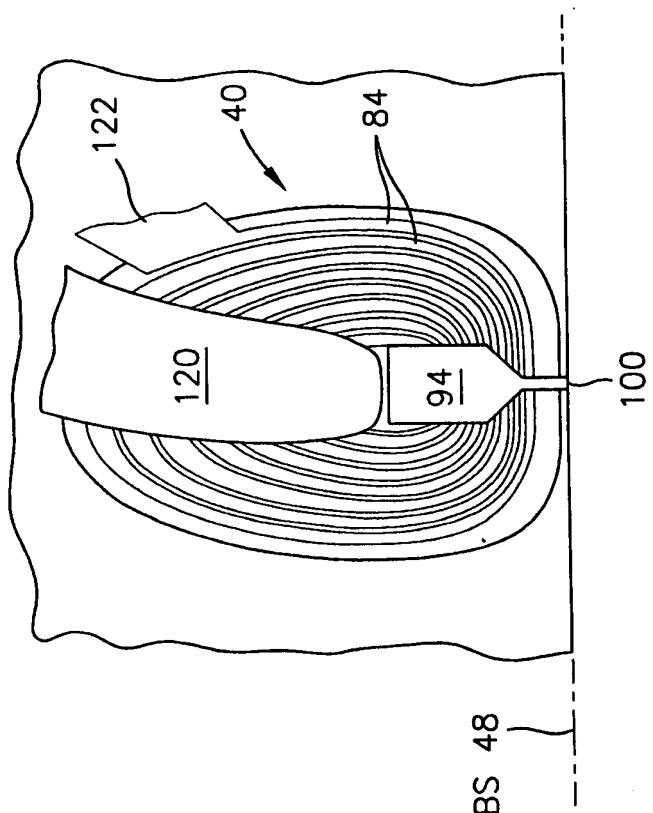
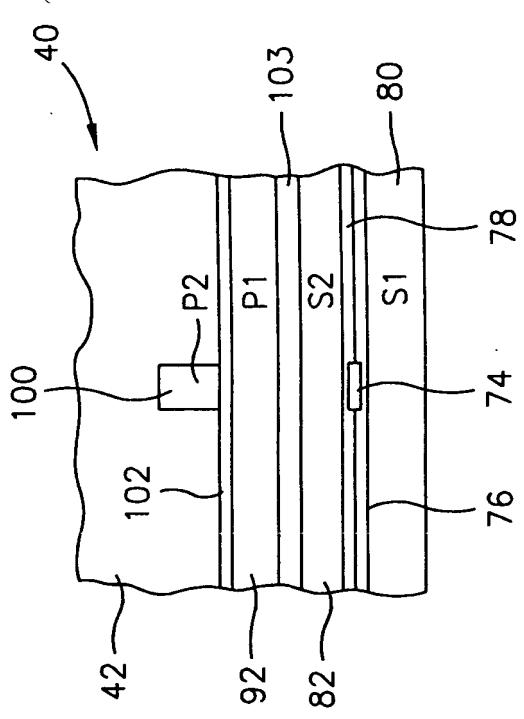


FIG. 5

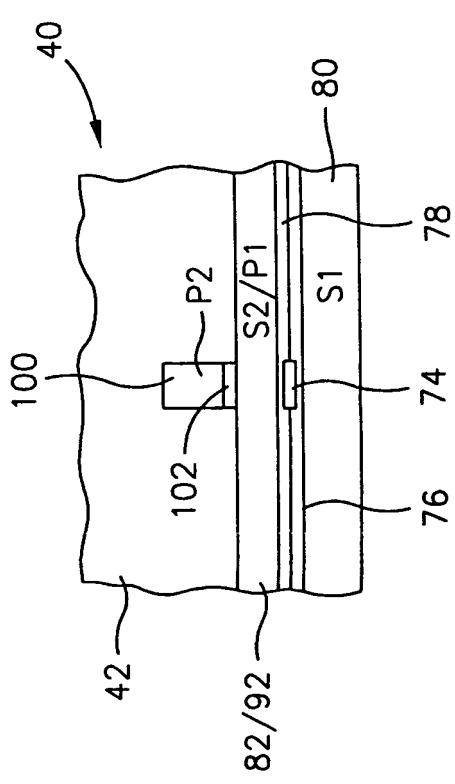




**FIG. 10**



**FIG. 8**



**FIG. 9**

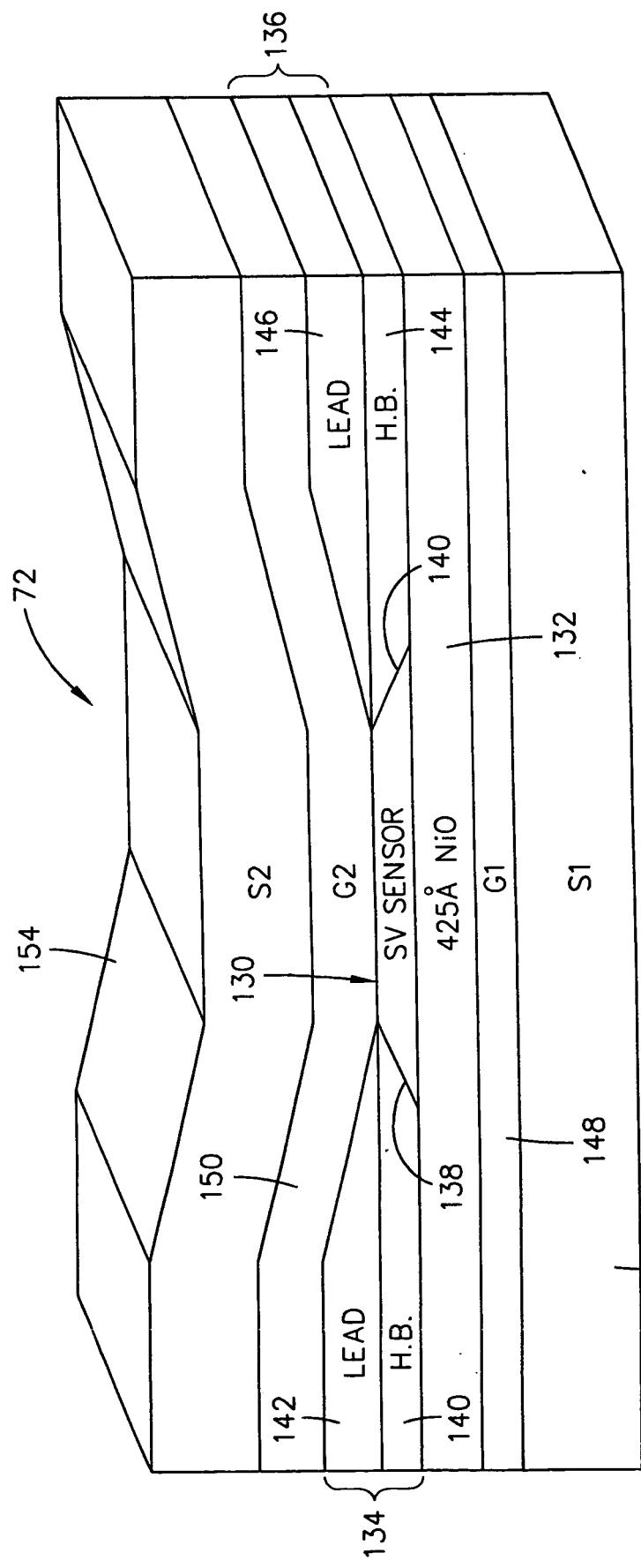


FIG. 11  
(ABS)

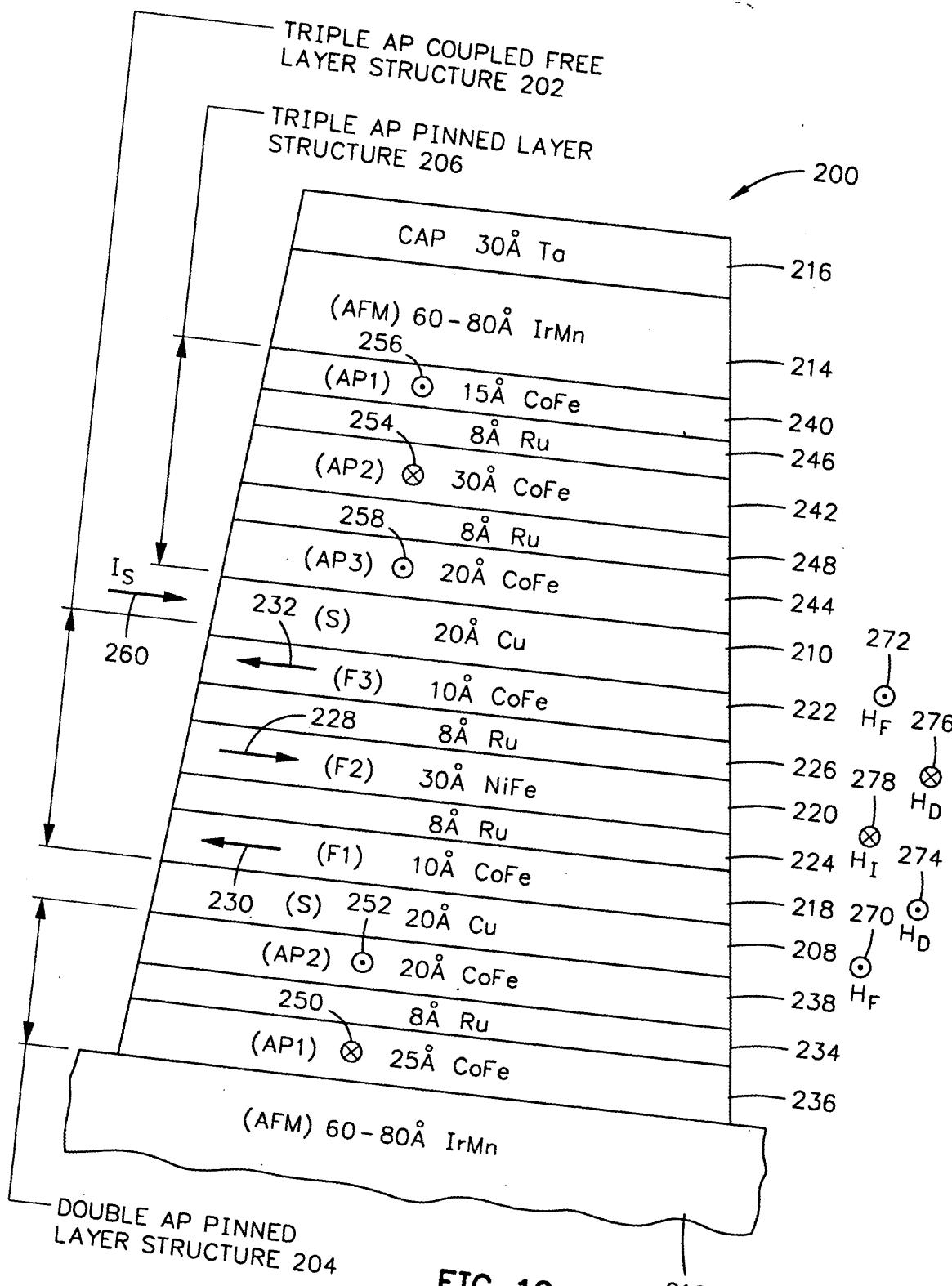


FIG. 12

## TRIPLE AP FREE LAYER STRUCTURE 202

## DOUBLE AP PINNED LAYER STRUCTURE 204

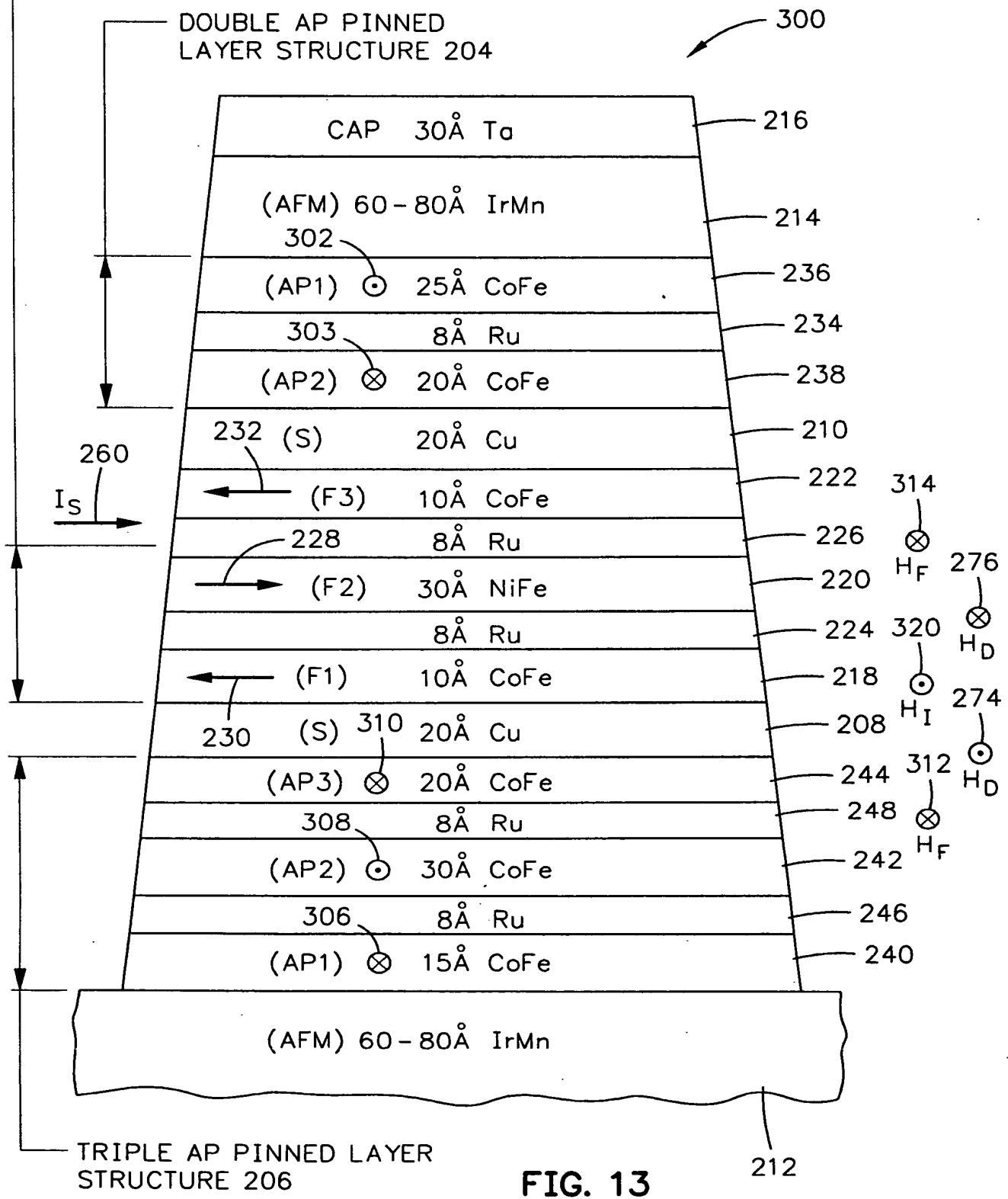


FIG. 13

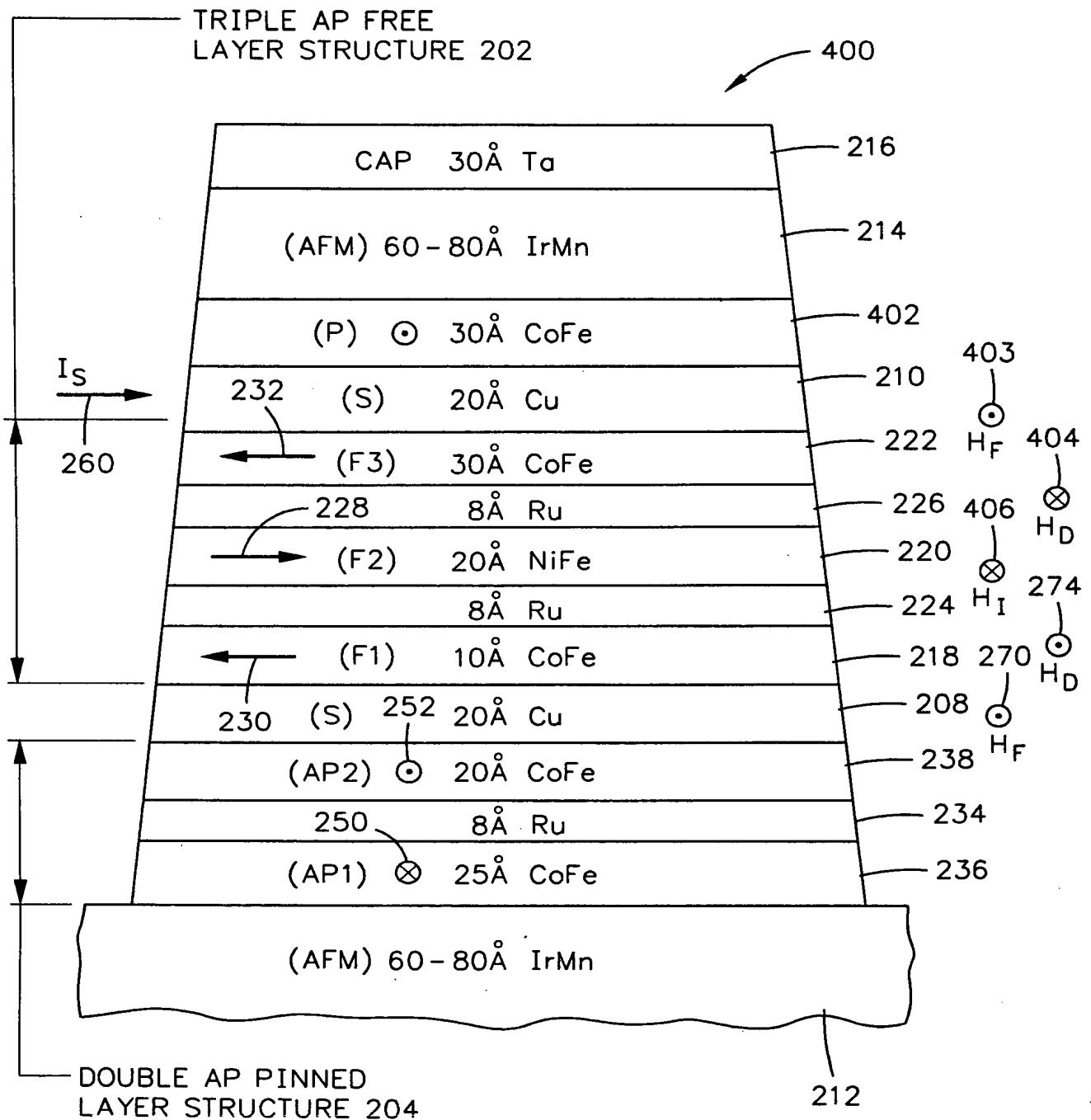


FIG. 14